



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:26-05-2021

Department	ARCHITECTURE	Application No.	202110028
Area of Research	ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE	Research Mode	PART TIME

Name :VAINAVI S

Date of Birth / Age :04-07-1989 / 32 Years

Gender :FEMALE

Category :BC

e-Mail ID :vainavisundarrajan@gmail.com

Mobile :9943351336



Father's/Husband's Name	SUNDARRAJAN K	Father's/Husband's Occupation	FINANCE
Family Income	RS 5,40,000/-	Residential Type	URBAN
Birth Place	ERODE	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	317229356285	PAN No.	ASUPV3497N
Physically Challenged	NO	Type of Disability	-
Address for Communication: 9 VIVEKANANDHAR STREET ERODE ERODE DISTRICT TAMIL NADU INDIA Pin-638009		Permenant Address: 9 VIVEKANANDHAR STREET ERODE ERODE DISTRICT TAMIL NADU INDIA Pin-638009	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
B.ARCH	ARCHITECTURE	MEASI ACADEMY OF ARCHITECTURE, ANNA UNIVERSITY,CHENNAI	2011	61%	FIRST	REGULAR
M.ARCH	ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE	NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI	2020	8.08	FIRST	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
EXCEL COLLEGE OF ARCHITECTURE AND PLANNING, PALLAKAPALAYAM	ASSISTANT PROFESSOR	2012-08-21	2013-03-31	TEACHING	
SRI SAI ARCHITECTURE WORKS,ERODE	ARCHITECT	2013-04-01	2013-04-14	ARCHITECTS DRAWINGS AND SITE WORK	
RVS SCHOOL OF ARCHITECTURE, COIMBATORE	ASSISTANT PROFESSOR	2013-04-15	2015-10-27	TEACHING	

EXCEL COLLEGE OF ARCHITECTURE AND PLANNING, PALLAKAPALAYAM	ASSISTANT PROFESSOR	2015-10-28	2018-08-14	TEACHING
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Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
202110028_210610170727	VHD40030678373	10-06-2021	600	SUCCESS

SUSTAINABLE DESIGN APPROACHES TO ENHANCE THERMAL COMFORT OF THE CONTEMPORARY RESIDENTIAL BUILDINGS IN HUMID CLIMATES

ABSTRACT

The ozone layer depletion and the greenhouse gas emissions such as CO₂, CFC, etc are some of the major concerns in today's scenario. One of the major reasons for emission is air conditioning the spaces. To reduce these emissions at a rapid pace, the air conditioning within the spaces has to be reduced. Unless and until thermal comfort is achieved, people will use the air conditioning systems. If thermal comfort is achieved by designing the spaces efficiently, air conditioning the spaces will not be needed anymore. Thus, thermal comfort can be achieved by

- designing the openings with appropriate position and sizes,
- designing the most suited shading devices for openings,
- choosing the appropriate materials for the newly constructed buildings and also by choosing the most suited materials for insulation of walls and roof in retrofit buildings
- designing the residence with courtyard and placing them on the right orientations

So, the best solution to these problems is to design the spaces in such a way that thermal comfort is achieved and maintained well within these spaces.

This project majorly deals with the thermal comfort of residential buildings in humid climates, the retrofitting and prototype design of the residential buildings with and without courtyard by determining the position and size of windows, designing the appropriate shading devices, insulating the walls and roofs, etc. The readings of DBT, WBGT, RH and VA are taken using instruments such as heat stress meter, hot wire anemometer and to analyze the readings using IMAC and questionnaire survey using SPSS software. Thus, the guidelines for a sustainable residential design are framed.

Keywords: Sustainable design, Thermal Comfort, opening and operation of windows, shading devices, U value

Abbreviations: CO₂ (Carbon-di-Oxide), CFC (Chloro Fluoro Carbon), DBT (Dry Bulb Temperature), WBGT (Wet Bulb Globe Temperature), RH (Relative Humidity), VA (Velocity of Air)

AIM

To recommend sustainable design strategies to enhance thermal comfort in contemporary residential buildings in humid climates. This study focuses on the readings to be taken in dwelling units, questionnaire surveys and also on the manual calculations for finding out the most effective and suited materials for the building envelopes and roof.

RESEARCH OBJECTIVES

To analyze the existing apartment in hot humid climate in terms of openings, shading devices and insulation materials before and after retrofitting

To choose the individual villas with courtyard and without courtyard of the same scale from warm humid climate and analyze in accordance with thermal comfort

To compare the passively designed residences with the contemporary residences in terms of materials, construction technology, etc.

To frame the guidelines for a sustainable residential design by

- referring ECBC-R, SP 41 for doing manual calculations
 - to determine the opening sizes,
 - to determine the width and inclination of shading devices in different orientations,
 - to determine the U value of the buildings
- taking readings of VA, DBT, RH and comparing those with the standard values
- administering questionnaire surveys to the residents of the dwelling units

RESEARCH QUESTIONS

The following research questions will be addressed through this study.

- Will the position and size of the openings in different orientations play an important role in bringing in thermal comfort?
- Will the opening of windows for air circulation during the day/night be an effective solution? If so, should the windows be opened during the summer/ winter season? Should the windows facing the particular orientation be opened?
- Will the insulation for the building envelope be helpful to reduce the heat gain within the building? What kind of materials can be used for different scenarios? What would be the thickness of the materials used?

LIMITATIONS

- The limitation of the project is that it is focused on contemporary residential buildings in humid climates. Other climatic conditions or buildings other than the contemporary residential buildings are not within the scope of this project. Only thermal comfort parameters are focused and the other parameters are not within the scope.
- The position and size of the windows, Shading devices, materials for walls, roofs and insulation are under the major focus and no other parameters are taken into consideration.

EXPECTED OUTCOME

- To find out the most effective ways to create thermal comfort in the living spaces of apartments of Chennai in the existing setting by doing retrofitting measures such as position and size of windows, appropriate shading devices and suitable materials for the wall and roof insulation.
- To find out the effectiveness of the individual villa with courtyard in accordance with thermal comfort.
- To design a prototype model for an individual villa and apartment building focusing on the opening of windows, shading devices and materials used for construction.
- To recommend sustainable design strategies for designing a contemporary residential building in humid climates in accordance with thermal comfort requirements.

LITERATURE REVIEW

Madhavi Indraganti (2010) studied behavioral adaptation and the use of environmental controls in summer for thermal comfort in apartments in India.

A thermal comfort field study conducted in 45 apartments of Hyderabad in 2008 collected 3962 comfort responses and the use of controls of over 100 occupants in summer and monsoon months using Class-II protocols for field study. The indoor temperature in May was very high and was moderate to high in the monsoon season.

Madhavi Indraganti (2010) did a field study in Hyderabad, India on thermal comfort in naturally ventilated apartments in summer.

The subjects used traditional ensembles and slowed down their activities adaptively to restore thermal comfort. Clothing adaptation was found to be impeded by many socio-cultural and economic aspects.

Madhavi Indraganti (2010) studied the adaptive use of natural ventilation for thermal comfort in Indian apartments

The occupants adapted through clothing, metabolism and the use of various controls like windows, balcony and external doors and curtains. The subjects operated the controls, as the indoor temperature moved away from the comfort band. At comfort temperature, maximum use of openings was found, which correlated robustly with indoor/outdoor temperature and thermal sensation.

Huibo Zhang, Hiroshi Yo Shino (2010) analyzed the indoor humidity environment in Chinese residential buildings.

The indoor humidity environment in the investigated houses has strong correlations with outdoor humidity level, heating and cooling system (type and operation hours), human behavior as well as in building airtight performance.

Ricardo Forgiarini Rupp et al. (2015) did a review of human thermal comfort in the built environment

Several research topics are addressed involving naturally ventilated, air-conditioned and mixed-mode buildings, personalized conditioning systems and the influence of personal (age, weight, gender, thermal history) and environmental (controls, layout, air movement, humidity, among others) variables on thermal comfort.

TOOLS NEEDED AND THEIR COST

S.NO	TOOLS NEEDED	USED FOR FINDING	BRAND /MODEL	COST
1	HEAT STRESS METER	WBGT, DBT,RH	EXTECH HT30 Heat stress WBGT meter	Rs 13,434/-
2	HOTWIRE ANEMOMETER	VA	TENMARS TM-4001 Hot Wire Air Velocity Meter	Rs 14,500/-

BUILDINGS CHOSEN FOR CASE STUDY

1. Rajparis Harmony Apartment in Medavakkam, Chennai for HOT HUMID APARTMENT RETROFITTING
2. A contemporary individual villa in Medavakkam, Chennai and a Mylapore house for PASSIVE AND CONTEMPORARY RESIDENCE COMPARISON
3. A contemporary individual villa with a courtyard and another contemporary individual villa without courtyard for INDIVIDUAL VILLA WITH AND WITHOUT COURTYARD STUDY



National Institute of Technology Tiruchirappalli

hereby confers the degree of

Master of Architecture

in

ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE

on

VAINAVI S

*for successfully completing the prescribed programme
of study and having been placed in*

First Class



Given this day the Seventh of November 2020

Under the seal of the Institute



TIRUCHIRAPPALLI - 620 015, INDIA



Alindulla
Registrar

Maithomas
Director

[Signature]
Chairperson
Board of Governors

Checked by	<i>J. Bragg</i>
Verified by	<i>Sarah Lee</i>





Reg. No.30806251040/RG




The Syndicate of the Anna University hereby makes known that
VAINAVI S *has been admitted to the* **DEGREE OF BACHELOR OF**
ARCHITECTURE *under the Faculty of Architecture and Planning,*
having completed the prescribed programme of study and having been certified by the
duly appointed examiners to be qualified to receive the same, and has been placed in
FIRST CLASS *at the Examination held in* **NOVEMBER 2011.**

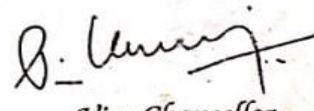
Given under the Seal of the University



Chennai 600 025
India
September 2012


Controller of Examinations


Registrar


Vice-Chancellor



NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI - 620 015, TAMIL NADU, INDIA

TRANSCRIPT

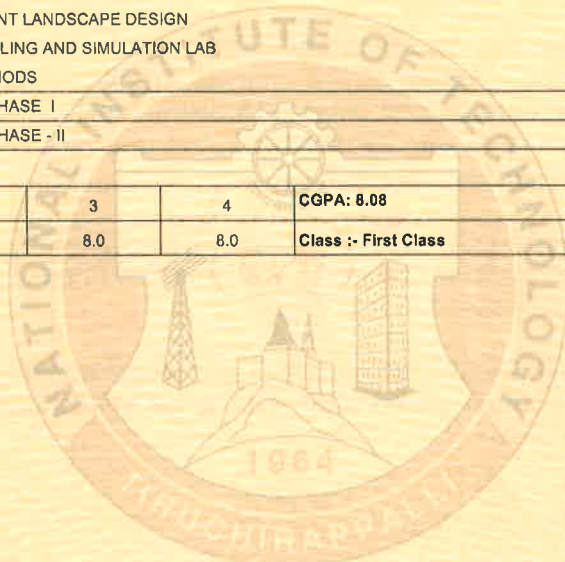


NAME : VAINAVI S
DEGREE : MASTER OF ARCHITECTURE
SPECIALISATION : ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE

ROLL NO. : 201118017
DEPARTMENT : ARCHITECTURE

SESSION	SEM	CODE	SUBJECT	CREDIT	GRADE	PASSED IN
JULY / 2018	1	AR701	ENERGY, ENVIRONMENT & BUILDINGS	2	B	DEC-2018
		AR703	BUILDING SCIENCE & SUSTAINABILITY	3	B	DEC-2018
		AR705	SOLAR PASSIVE ARCHITECTURE	3	C	DEC-2018
		AR707	ASSESSMENT OF BUILT ENVIRONMENT	3	A	DEC-2018
		AR709	BUILDING ENERGY ANALYSIS STUDIO	3	A	DEC-2018
		AR713	ENVIRONMENT & BEHAVIOUR	2	B	DEC-2018
		AR718	POST OCCUPANCY EVALUATION OF BUILDINGS	2	A	DEC-2018
JAN / 2019	2	AR715	ENVIRONMENTAL LIGHTING	2	A	MAY-2019
		AR702	BUILDING ENERGY AUDIT AND MANAGEMENT	3	A	MAY-2019
		AR704	GREEN ARCHITECTURE	2	B	MAY-2019
		AR706	LIGHTING DESIGN	3	C	MAY-2019
		AR708	ENERGY EFFICIENT LANDSCAPE DESIGN	3	B	MAY-2019
		AR710	BUILDING MODELLING AND SIMULATION LAB	3	B	MAY-2019
		AR712	RESEARCH METHODS	2	C	MAY-2019
JULY / 2019	3	AR747	DISSERTATION PHASE I	12	B	DEC-2019
JAN / 2020	4	AR748	DISSERTATION PHASE - II	12	B	JUNE-2020

SEMESTER	1	2	3	4	CGPA: 8.08	Passed in: JUNE-2020
G.P.A:	8.28	8.0	8.0	8.0	Class :- First Class	



P. Srinivasan
Associate Dean (Academic)



SYSTEM OF EVALUATION


1. The Course for the award of **M.Tech. /M.Arch. /M.Sc.** Degree comprises 2 years (4 Semesters) and **the medium of instruction is English.**
2. National Institute of Technology Tiruchirappalli follows grade point average system. Grade points are assigned as:
S - 10; A - 9; B - 8; C - 7; D - 6; E - 5; F - 0 (FAIL)
3. CGPA (Cumulative Grade Point Average) is the ratio of sum of product of number of credits of course with grade point scored in that course, taken for all the courses in the programme, to the sum of the number of credits of all the courses in the programme.
4. Candidates who get a CGPA of 8.5 and above and who complete the programme in the minimum period, passing all the courses in the first appearance itself, will be declared to have passed in first class with distinction. For this purpose, withdrawal from examination (vide regulation M.8) and authorized break of study (vide regulation M.9) will not be counted.

Candidates who get a CGPA of 6.5 and above but below 8.5 and who complete the programme in the minimum period plus authorized break (vide regulation M.9) will be declared to have passed in first class.

Candidates who get a CGPA of below 6.5 and who complete the programme within the maximum prescribed period after joining the institute, will be declared to have passed in second class



B.Arch DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF MARKS

NAME OF THE CANDIDATE							VAINAVI S							REGISTER NO.				30806231040			
COLLEGE OF STUDY							308: Measi Academy of Architecture							MONTH & YEAR OF LAST APPEARANCE				November 2011			
PROGRAMME & BRANCH							B.Arch. Architecture							REGULATIONS				2004			
SEM.	SUBJECT CODE	SUBJECT TITLE					MAX	MIN	MARKS SECURED	MONTH & YEAR OF PASSING	SEM.	SUBJECT CODE	SUBJECT TITLE					MAX	MIN	MARKS SECURED	MONTH & YEAR OF PASSING
01	AR1101	Art Appreciation					100	50	054	NOV 2006	06	AR1003	Theory of Design					100	50	056	APR 2009
01	AR1102	History of Architecture-I					100	50	065	NOV 2006	06	AR1355	Materials and Construction - VI					100	50	074	APR 2009
01	MA1102	Mathematics-I					100	50	054	NOV 2006	06	AR1356	Architectural Design - VI					300	150	188	APR 2009
01	AR1103	Computer Studio-I					100	50	084	NOV 2006	07	AR1401	Practical Training					500	250	347	NOV 2009
01	AR1104	Architectural Drawing-I					100	50	063	NOV 2006	08	AR1451	Design of Structures-IV					100	50	060	APR 2010
01	AR1105	Materials and Construction-I					100	50	066	NOV 2006	08	AR1452	Professional Ethics and Practice - I					100	50	056	APR 2010
01	AR1106	Architectural Design-I					300	150	176	NOV 2006	08	AR1453	Human Settlement Planning					100	50	051	APR 2010
02	AR1151	Mechanics Of Structures -I					100	50	073	APR 2007	08	AR1454	Specification and Estimation					100	50	062	APR 2010
02	AR1152	Theory Of Architecture - I					100	50	067	APR 2007	08	AR1455	Disaster and Mitigation and Management					100	50	058	APR 2010
02	AR1153	History Of Architecture - II					100	50	062	APR 2007	08	AR1008	Urban Housing					100	50	053	APR 2010
02	AR1154	Computer Studio - II					100	50	077	APR 2007	08	AR1456	Architectural Design - VII					300	150	168	APR 2010
02	AR1155	Architectural Drawing - II					100	50	068	APR 2007	09	AR1501	Landscape and Ecology					100	50	058	NOV 2010
02	AR1156	Materials and Construction - II					100	50	063	APR 2007	09	AR1502	Professional Ethics and Practice-II					100	50	067	NOV 2010
02	AR1157	Architectural Design - II					300	150	177	APR 2007	09	AR1503	Urban Economics and Sociology					100	50	060	NOV 2010
03	AR1201	Mechanics Of Structures - II					100	50	050	NOV 2007	09	AR1013	Project Management					100	50	076	NOV 2010
03	AR1202	Theory Of Architecture - II					100	50	058	NOV 2007	09	AR1014	Architectural Conservation					100	50	070	NOV 2010
03	AR1203	History Of Architecture - III					100	50	051	NOV 2007	09	AR1504	Architectural Design-VIII					300	150	177	NOV 2010
03	AR1204	Climateology					100	50	076	NOV 2007	10	AR1016	Interior Design and Practices					100	50	071	APR 2011
03	AR1205	Environmental Sciences and Engineering					100	50	068	NOV 2007	10	AR1018	Environmental Design					100	50	054	APR 2011
03	AR1206	Materials and Construction - III					100	50	069	NOV 2007	10	AR1551	Thesis					500	250	305	NOV 2011
03	AR1207	Architectural Design - III					300	150	186	NOV 2007	<p>***End of Statement***</p> <p>Classification: FIRST CLASS</p> <p>Total Marks (from 3rd to 10th semester): 3990 / 6500</p> <p>Percentage (rounded to nearest integer): 61</p> <div></div>										
04	AR1251	Design of Structures - I					100	50	065	APR 2008											
04	AR1252	Site Planning					100	50	062	APR 2008											
04	AR1253	History of Architecture - IV					100	50	050	APR 2008											
04	AR1254	Building Services - I					100	50	053	APR 2008											
04	AR1001	Vernacular Architecture					100	50	054	APR 2008											
04	AR1256	Materials and Construction - IV					100	50	061	APR 2008											
04	AR1257	Architectural Design - IV					300	150	206	NOV 2008											
05	AR1301	Design of Structures - II					100	50	053	NOV 2008											
05	AR1302	Architectural Acoustics					100	50	052	NOV 2008											
05	AR1303	History of Architecture - V					100	50	054	NOV 2008											
05	AR1304	Building Services - II					100	50	055	NOV 2008											
05	AR1003	Energy Efficient Architecture					100	50	068	NOV 2008											
05	AR1305	Materials and Construction - V					100	50	066	NOV 2008											
05	AR1306	Architectural Design - V					300	150	185	NOV 2008											
06	AR1351	Design of Structures - III					100	50	060	APR 2009											
06	AR1352	Interior Design Principles					100	50	065	APR 2009											
06	AR1353	History of Architecture - VI					100	50	059	APR 2009											
06	AR1354	Building Services - III					100	50	053	APR 2009											



NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 620 015, TAMILNADU, INDIA

TRANSFER AND CONDUCT CERTIFICATE

TC / 2020/ 2527

Roll No : 201118017

- | | |
|---|--|
| 1) Name of the Student | : VAINAVI S |
| 2) Date of Birth as entered in the Admission Register | : 04-Jul-1989 |
| 3) Nationality | : INDIAN |
| 4) Date of Admission | : 28-Jun-2018 |
| 5) Date of Leaving | : June-2020 |
| 6) At the time of leaving | |
| | Programme : M.Arch. |
| | Department : ARCHITECTURE |
| | Specialization : ENERGY EFFICIENT AND SUSTAINABLE ARCHITECTURE |
| 7) Whether qualified for promotion to a higher class | : REFER GRADE CARDS |
| 8) Conduct and Character | : GOOD |

Date : 22-Jul-2020



Associate Dean (Academic)



Excel[®] COLLEGE OF ARCHITECTURE & PLANNING

Approved by Council of Architecture, New Delhi, No. CoA/5/Academic/TN22,
Affiliated to Anna University, Chennai



Sponsored by SRET - Sri Rengaswamy Educational Trust, Komarapalayam

Ref.: SRET/ECAP/Ser.Cert/2020-21/79

02.03.2021

EXPERIENCE & RELIEVING CERTIFICATE

This is to certify that **Ar. S. VAINAVI** worked as **Assistant Professor** in the Department of **Architecture** in **Excel College of Architecture and Planning**. During this period, her Conduct and Character were good. She was relieved from the duty on the afternoon of **14.08.2018**.

S.No	Post Held	From	To
1.	Assistant Professor	21.08.2012	31.03.2013
2.	Assistant Professor	28.10.2015	14.08.2018


DIRECTOR (TECH)



NH-544, Salem Main Road, Pallakapalayam, Sankari West Post, Komarapalayam Taluk,
Namakkal District - 637303, Tamilnadu, INDIA, Mobile: +91 98427 16900, Tel: +91 4288 227361 to 68,
E-mail: excelarch@gmail.com, excelarchoffice@gmail.com, Web: www.excelinstitutions.com
Excellence in Professional Education

Mr. G. Senthil Kumar
Managing Director
Sri Sai Architecture Works



SRI SAI ARCHITECTURE WORKS

9, Vivekanandar Street, Erode – 638009

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www.srisaiarchitectureworks.com



March 30, 2021

EXPERIENCE CERTIFICATE

This is to certify that Ms. S.Vainavi has been working as an **ARCHITECT** in our firm from

1. 19.06.2020 to 04.08.2020
2. 01.04.2013 to 14.04.2013

She bears excellent conduct and character.

MANAGING DIRECTOR

(G. Senthil Kumar)



R.V.S. School of Architecture

(Approved by COA, New Delhi & Affiliated to Anna University, Chennai)
Kumaran Kottam Campus, Trichy Road, Kannampalayam, Coimbatore - 641 402.
Phone : 0422 - 2681123, 2681124, Fax : 0422-2680047

22.01.2016

EXPERIENCE CERTIFICATE

This is to certify that Ms.Vainavi.S, has been working as Assistant Professor in our Institution from April 15, 2013 till October 27, 2015.

She bears excellent conduct and character.

DIRECTOR

DIRECTOR
R.V.S. SCHOOL OF ARCHITECTURE
KUMARAN KOTTAM CAMPUS,
TRICHY ROAD, KANNAMPALAYAM,
COIMBATORE - 641 402.



27.1.2021

EXPERIENCE CERTIFICATE

This is to certify that **Ms.Valnavi.S** has been working as **Assistant Professor** in our Institution from **August 5, 2020 till January 26, 2021.**

She bears excellent conduct and character.

SAN



M. RAJ KUMAR
DIRECTOR

SAN ACADEMY OF ARCHITECTURE

M. RAJ KUMAR

Director,
San Academy of Architecture
Acc Pirivu, Navakkarai (Po),
Coimbatore - 641 105.

आयकर विभाग

INCOME TAX DEPARTMENT



भारत सरकार

GOVT. OF INDIA

S VAINAVI

SUNDARRAJAN

04/07/1989

Permanent Account Number

ASUPV3497N

S. Vainavi

Signature



04062013



India Driving Licence(Tamilnadu)

Form 7

DOI 03/06/2008

D.L.No : TN33 20080003465

Name : VAINAVI S

S/D/W of : SUNDARRAJAN K

Address :

D.NO 9, VIVEKANANDHAR STREET
SURAMPATTI.P.O.

ERODE 638009

Temp.Addr:

D.O.B. : 04/07/1989

B.G. :



Punishments:

End.No. : TN33/DLA/0000957/2009 25/06/2009 1:15:54 PM

Licensed to drive throughout India, vehicles of the following descriptions

M/CYCL. WG 03/06/2008 TN33

Non-Transport Veh. Valid upto 02/06/2028

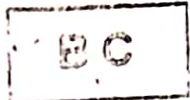


S. Vainavi

Signature/L. T.I
of the Holder

[Red Signature]

Asst.Licensing Authority
RTO, ERODE



சான்றிதழ் எண்:
Certificate No. :



மாவட்ட குறியீடு எண்
District Code
வட்ட குறியீடு எண்
Taluk Code
கிராமக் குறியீடு எண்
Village Code

0	7
0	1
3	5

649277

சாதிச்சான்றிதழ்

COMMUNITY CERTIFICATE

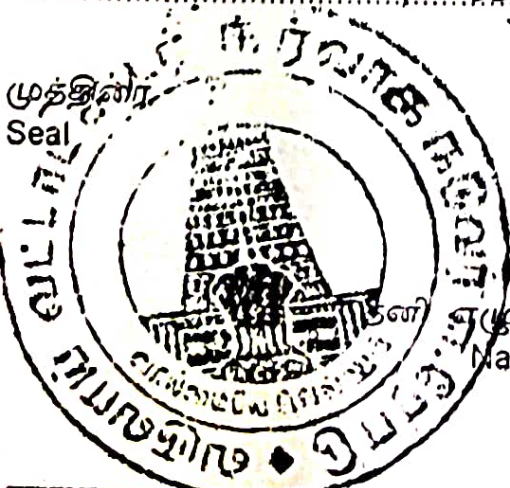
மாவட்டம் வட்டம்
கிராமம் / நகரம், திரு / திருமதி / செல்வி /
செல்வன் தகப்பனார் /
கணவர் பெயர்

வகுப்பைச் சார்ந்தவர். அரசு ஆணை எண். 1564, சமூக நலத்துறை, நாள் 30-7-1985.
வ. எண்., படி பிற்பட்ட பிரிவைச் சார்ந்தவர் என
சான்றளிக்கப்படுகிறது.

This is to Certify that S. Vainalli Son / Daughter of
Thiru K. Sundar Rajan of Village / Town Erode
Taluk Periyar District of the State of Tamil Nadu belongs to Hindu
Kaikolan Community, which is recognised as a Backward Class as
per Government Order (Manuscript Series) No. 1564, Social Welfare Department, dated
30-7-1985 vide Serial No. 39.

2. திரு / திருமதி / செல்வி / செல்வன்
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில்
மாவட்டத்தில் வட்டத்தில்
கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் என சான்றளிக்கப்படுகிறது.

2. It is certified that Thiru / Tmt. / Selvi / Selvan S. Vainalli
and his / her family ordinarily reside(s) at 657 Chinnamuthu St. village / Town
Taluk Periyar District of Tamil Nadu.



கையொப்பம்
Signature

நாள்
Date

முத்துக்களில் பெயர்
Name in Capital Letters

பதவிப் பெயர்
Designation

23.2.85
Zonal Deputy Tahsildar -
ERODE.